

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims

1. (Cancelled)

~~2.~~ ¹ (Currently Amended) A computer system comprising a plurality of host computers, a managing computer, and a disk subsystem accessible as logical volumes from said host computer through a network one or more networks,
~~—said computer system further comprising a management computer, and said disk storage including:~~
said disk subsystem comprising:
disk units;
a disk controller coupled to said disk units;
an agent including a supervisory program for performing disk unit resource supervision;
a CPU; and
a memory,
wherein said CPU ~~reads~~ executes said agent to collect volume management information ~~owned~~ held by said disk storage ~~to form units and to create~~ logical volume

configuration information ~~and in~~ said memory ~~holds the logical volume configuration~~
information, and

wherein said memory holds the logical volume configuration information
created by execution of the agent such that said ~~management managing~~ computer
can access information extracted from the volume management information based on
said logical volume configuration information.

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8. (Currently Amended) A storage managing method in a disk subsystem
including ~~a disk storage~~ storages accessible as logical volumes from a plurality of host
computers ~~computer~~ through a storage area network (SAN), said disk subsystem
being connected to a managing computer coupled to said host computers via a local
area network (LAN), the method comprising the steps of:

using a program for performing disk storage resource supervision, said
program including a supervisory program, said program collecting volume
management information of volumes installed in the disk subsystem, the volume
management information including volume designation information for designating a
volume which delivers management information, and volume configuration information
describing a method for referencing the volume;

reading the volume management information held in said disk storages;

forming information representing a configuration of logical volumes from said
volume management information; and

executing said reading step and said forming step in the above order;

creating volume management information extracted data based on said logical volume configuration information;
transmitting the extracted data to said managing computer; and
executing said creating step and said transmitting step after execution of said reading step and said forming step.

4. (Cancelled)

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6.

(Currently Amended) A management program for managing volumes of a disk subsystem having a disk storage accessible as logical volumes from a computer through a network, said management program being retained in a storage medium and being executable by a CPU for implementing:

a function of reading volume management information held in said disk storage;

a function of forming logical volume configuration information from said volume management information; and

a function of extracting information from the volume management information based on said logical volume configuration information; and

a function of transmitting the extracted information to a management-managing computer connected to said network,

wherein the function of extracting information from the volume management information and the function of transmitting the extracted information are performed after the function of reading and the function of forming.

²
~~6.~~ (New) A computer system according to claim ¹~~2~~,

wherein said plurality of host computers is coupled to said disk subsystem through a storage area network (SAN) as one of said networks, and said managing computer and said plurality of host computers are coupled to said disk subsystem through a local area network (LAN) as another of said networks, and

wherein said agent including the supervisory program for performing disk unit resource supervision collects volume management information of volumes installed in the disk subsystem, the volume management information including volume designation information for designating a volume which delivers management information, and collects volume configuration information describing a method for referencing the volume.

³
~~7.~~ (New) A computer system according to claim ²~~6~~,

wherein said volume designation information has a table of which includes volume identification, whether information collection is to be performed on a particular volume, and a volume configuration identification, and said volume management information includes volume identification, an unused volume capacity, and a total volume capacity.

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8.

(New) A computer system according to claim 2,

wherein the supervisory program provides the volume management information as volume management information extracted data to an area provided on a memory of a service processor based on at least two kinds of information including volume designation information and volume configuration information, and

wherein the volume management information extracted data includes information regarding an unused storage area capacity, a total storage area capacity and an access frequency per disk unit, and is transmitted to the managing computer in response to a request from the managing computer through a local area network (LAN) as one of said networks.

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9.

(New) A storage managing method according to claim 5, wherein the volume management information extracted data includes information regarding an unused storage area capacity, a total storage area capacity, and an access frequency per disk unit, and is transmitted to the managing computer in response to a request from the managing computer through the LAN.